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(54) **HYBRID ELECTRIC CAR**

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(57) Abstract:

PROBLEM TO BE SOLVED: To incorporate each advantage of series method and parallel method together, by providing batteries each being connected to a first motor/generator and a second motor/generator.

SOLUTION: In a battery running mode, the wheels 8, 8 are driven by a driving force by two motors 10, 14, by stopping the engines, setting a change gear 2 to neutral, a second clutch 11 to connection, a third clutch 13 to disconnection, a fourth clutch 15 to connection, a first and a second motors/generators transferred to motor mode. Thus, a driving force can be obtained by two motors 10, 14, so that the running performance at the battery running mode can be improved. In this case, the speed change gear 2 is in neutral state, and the third clutch 13 is in disconnected state, so that the output from the side of the motors 10, 14 is not transmitted to the side of an input shaft 22 of the speed change gear 2, and thus the first clutch 3 can be in a disconnected state, and the control of the first clutch is not required.

